

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1.-10. (Cancelled)

11. (Currently amended) A method of analyzing a component of an enzymatically catalyzed process from a test sample, comprising:

providing a liquid sample of the test sample;

contacting the sample either with an enzyme for which the component is a substrate or with a substrate for which the component is an enzyme, wherein the contacting forms carbonate ion in equilibrium with carbon dioxide;

shifting the equilibrium towards carbon dioxide; and,

detecting the carbon dioxide as a partial pressure.

12. (Currently amended) The method as in a claim 11 wherein the ~~biological fluid is blood, urea or milk and the component is urea~~ enzymatically catalyzed process is catalyzed by an enzyme selected from the group consisting of urate oxidase, uricase, urease, and a dehydrogenase enzyme.

13. (Currently amended) A method of analyzing milk urea nitrogen (MUN) in dairy milk, comprising:

providing a dairy milk sample;

contacting the sample with urease, at least one of the dairy milk sample and the urease being in a liquid solution, wherein the contacting forms an equilibrium between carbonate ion and carbon dioxide;

shifting the equilibrium towards carbon dioxide; and,

detecting the carbon dioxide as a partial pressure.

14.-15. (Cancelled)

16. (Original) The method as in claim 13 wherein the equilibrium is shifted by admixing the liquid solution with a pH adjusting agent.

17. (Original) The method as in claim 13 further comprising correlating the carbon dioxide detected to the concentration of MUN in the dairy milk sample.

18. (Original) The method as in claim 13 wherein the contacting includes agitating the dairy milk sample.

19. (Currently amended) The method as in claim 17 wherein the ~~prediction error~~ for MUN in the dairy milk sample is measured within ~~not greater than~~ about +/- 1 mg/dl.

20. (Original) The method as in claim 13 wherein the urease is immobilized.